CLAIMS

What is claimed is:

- 1 1. An integrated tracing and logging system employed within a network comprising:
- a tracing module associated with specified program code regions of an application,
- 3 the tracing module to receive and process tracing method calls generated by the application
- 4 when the specified program code regions are executed;
- 5 a logging module associated with specified categories related to the network, the
- 6 logging module to receive and process logging method calls from network components
- 7 associated with the categories; and
- 8 a log viewer module to provide an interface to the integrated tracing and logging
- 9 system.
- 1 2. The system of claim 1, wherein the log viewer module comprises:
- a log viewer client to provide a user interface; and
- a log viewer server to access a message in at least one of the tracing module and the
- 4 logging module.
- 1 3. The system of claim 2, wherein the log viewer client is to provide a graphical user
- 2 interface to access one or more log messages generated by at least one of the tracing module
- 3 and the logging module.
- 1 4. The system of claim 3, wherein the log viewer client is to provide a first pane having
- 2 one or more log messages from a first application server and a second pane having one or log
- 3 messages from a second application server.

- 1 5. The system of claim 3, wherein the log viewer client is to provide a graphical user
- 2 interface to configure an output destination for the integrated tracing and logging system.
- 1 6. The system of claim 5, wherein the graphical user interface to configure an output
- 2 destination comprises a dialog window to set an attribute of the output destination.
- 1 7. The system of claim 6, wherein the attribute of the output destination includes at least
- 2 one of
- 3 a severity level; and
- 4 a filter.
- 1 8. The system of claim 3, wherein the one or more log messages are implemented as
- 2 management beans.
- 1 9. The system of claim 2, wherein the log viewer client is to provide a command line
- 2 interface to access one or more log messages generated by at least one of the tracing module
- 3 and the logging module.
- 1 10. A computer-implemented method employed within a network comprising:
- 2 creating an instance of a tracing controller associated with specified program code
- 3 regions of an application, the tracing controller instance to receive and process tracing
- 4 method calls generated by the application when the specified program code regions are
- 5 executed;
- 6 creating an instance of a logging controller associated with specified categories
- 7 related to the network, the logging controller to receive and process logging method calls
- 8 from network components associated with the categories;

- 9 specifying an output destination to receive a log message from at least one of the
- 10 tracing controller instance and the logging controller instance; and
- accessing the log message with a log viewer, the log viewer having a log viewer
- server and a log viewer client.
- 1 11. The method of claim 10, wherein accessing the log message comprises:
- 2 accessing a first log message on a first application server;
- accessing a second log message on a second application server; and
- 4 displaying the first log message and the second log message in a window of a
- 5 graphical user interface of the log viewer client.
- 1 12. The method of claim 11, wherein displaying the first log message and the second log
- 2 message in the window of the graphical user interface of the log viewer client comprises:
- displaying the first log message in a first pane of the window; and
- 4 displaying the second log message in a second pane of the window.
- 1 13. The method of claim 11, further comprising:
- 2 selecting the first log message in the first pane of the window;
- 3 selecting the second log message in the second pane of the window;
- 4 merging the first log message and the second log message; and
- 5 displaying the first log message and the second log message in a third pane of the
- 6 window.
- 1 14. The method of claim 11, wherein displaying the first log message and the second log
- 2 message in a window of a graphical user interface of the log viewer client further comprises:
- displaying one or more log messages of the output destination in the window of the
- 4 graphical user interface of the log viewer client.

- 1 15. The method of claim 14, further comprising:
- 2 searching the one or more displayed log messages to determine which, if any, of the
- 3 displayed log messages contain a search string.
- 1 16. The method of claim 15, further comprising:
- 2 identifying at least one of the one more displayed log messages having the search
- 3 string;
- 4 creating a search results pane in the window of the graphical user interface; and
- 5 displaying the identified log message in the search results pane.
- 1 17. The method of claim 10, further comprising:
- displaying a representation of the output destination in the log viewer;
- 3 selecting the displayed representation of the output destination;
- 4 opening a dialog window to access an attribute of the displayed representation of the
- 5 output destination; and
- 6 setting an attribute of the selected output destination with the opened dialog window.
- 1 18. The method of claim 17, wherein setting the attribute of the selected output
- 2 destination comprises:
- 3 setting a severity level of the output destination.
- 1 19. The method of claim 17, wherein setting the attribute of the selected output
- 2 destination comprises:
- 3 specifying a filter for the output destination.
- 1 20. A system comprising:

- a means for creating an instance of a tracing controller associated with specified
- 3 program code regions of an application, the tracing controller instance to receive and process
- 4 tracing method calls generated by the application when the specified program code regions
- 5 are executed;
- a means for creating an instance of a logging controller associated with specified
- 7 categories related to the network, the logging controller to receive and process logging
- 8 method calls from network components associated with the categories;
- a means for specifying an output destination to receive a log message from at least
- one of the tracing controller instance and the logging controller instance; and
- a means for accessing the log message with a log viewer, the log viewer having a log
- 12 viewer server and a log viewer client.
- 1 21. The system of claim 20, wherein the means for accessing the log message with the
- 2 log viewer comprises:
- a means for accessing a first log message on a first application server;
- 4 a means for accessing a second log message on a second application server; and
- a means for displaying the first log message and the second log message in a window
- of a graphical user interface of the log viewer client.
- 1 22. The system of claim 21, further comprising:
- a means for selecting the first log message in the first pane of the window;
- a means for selecting the second log message in the second pane of the window;
- 4 a means for merging the first log message and the second log message; and
- 5 a means for displaying the first log message and the second log message in a third
- 6 pane of the window.
- 1 23. The system of claim 20, further comprising:

2	a means for displaying a representation of the output destination in the log viewer;
3	a means for selecting the displayed representation of the output destination;
4	a means for opening a dialog window to access an attribute of the displayed
5	representation of the output destination; and
6	a means for setting an attribute of the selected output destination with the opened
7	dialog window.
1	24. The system of claim 20, wherein the means for setting the attribute of the selected
2	output destination comprises:
3	a means for setting a severity level of the output destination.
1	25. An article of manufacture comprising:
2	an electronically accessible medium providing instructions that, when executed by ar
3	apparatus, cause the apparatus to
4	create an instance of a tracing controller associated with specified program code
5	regions of an application, the tracing controller instance to receive and process tracing
6	method calls generated by the application when the specified program code regions are
7	executed;
8	create an instance of a logging controller associated with specified categories related
9 .	to the network, the logging controller to receive and process logging method calls from

specify an output destination to receive a log message from at least one of the tracing controller instance and the logging controller instance; and

network components associated with the categories;

access the log message with a log viewer, the log viewer having a log viewer server and a log viewer client.

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- 1 26. The article of manufacture of claim 25, wherein the instructions that, when executed
- 2 by the apparatus, cause the apparatus to access the log message cause the apparatus to
- access a first log message on a first application server;
- 4 access a second log message on a second application server; and
- 5 display the first log message and the second log message in a window of a graphical
- 6 user interface of the log viewer client
- 1 27. The article of manufacture of claim 26, wherein the instructions that, when executed
- 2 by the apparatus, cause the apparatus to display the first log message and the second log
- 3 message in a window of a graphical user interface of the log viewer client cause the
- 4 apparatus to
- 5 display one or more log messages of the output destination in the window of the
- 6 graphical user interface of the log viewer client.
- 1 28. The article of manufacture of claim 27, wherein the electronically accessible medium
- 2 provides further instructions that, when executed by the apparatus, cause the apparatus to
- search the one or more displayed log messages to determine which, if any, of the
- 4 displayed log messages contain a search string.
- 1 29. The article of manufacture of claim 28, wherein the electronically accessible medium
- 2 provides further instructions that, when executed by the apparatus, cause the apparatus to
- 3 identify at least one of the one more displayed messages having the search string; and
- 4 create a search results pane in the window of the graphical user interface; and
- 5 display the identified message in the search results pane.
- 1 30. The article of manufacture of claim 25, wherein the electronically accessible medium
- 2 provides further instructions that, when executed by the apparatus, cause the apparatus to

- display a representation of the output destination in the log viewer;
- 4 select the displayed representation of the output destination;
- 5 open a dialog window to access an attribute of the displayed representation of the
- 6 output destination; and
- set an attribute of the selected output destination with the opened dialog window.